REMARKS

This Amendment is being filed in response to the Office Action mailed on May 8, 2007, which had been reviewed and carefully considered. Reconsideration and allowance of the present application in view of the amendments made above and the remarks to follow are respectfully requested.

Claims 26-35 remain in this application. Claims 1-25 have been canceled.

Claims 10-25 have been canceled by this amendment, without prejudice. Claims 26-35 have been added.

In the Office Action, the Examiner objected to claims 10-11, 19 and 21 for certain informalities. The cancellation of claims 10-11, 19 and 21 renders moot this objection with regard to these claims.

In the Office Action, claims 10-14 and 16-25 are rejected under 35 U.S.C. §102(b) as allegedly anticipated by U.S. Patent No. 6,122,960 (Hutchings). Claims 10, 16-21 and 24 are rejected under 35 U.S.C. §102(b) as allegedly anticipated by U.S. Patent No.

6,160,478 (Jacobsen). Further, claims 10-12, 15-22 and 24-25 are

also rejected under 35 U.S.C. §102(e) as allegedly anticipated by

U.S. Patent No. 6,436,052 (Nikolic). In addition, claim 15 is

rejected under 35 U.S.C. §103(a) as being unpatentable over

Hutchings in view of Nikolic. It is respectfully submitted that

claims 26-35 are patentable over Hutchings, Jacobsen and Nikolic

for at least the following reasons.

On page 15 of the Office Action, in rejecting claim 15, the

Examiner correctly noted that Hutchings does not teach or suggest a

look-up table. Column 6, lines 50-51 and column 7, lines 20-30 of

Nikolic are cited in an attempt to remedy the deficiencies in

Hutchings. Further, page 12, item (d) of the Office Action cited

FIGs 2-3 and column 7, lines 22-29 of Nikolic.

It is respectfully submitted that the noted sections of

Nikolic merely teach that a look-up table is used to compare

acceleration data with minimum and maximum values and save a new

minimum or maximum value thus obtained.

In stark contrast, the present invention as recited in

independent claim 26, and similarly recited in independent claim 6,

31, amongst other patentable elements, requires (illustrative

emphasis provided):

> a processor configured to receive the sensor
> signals from the measurement unit, and to process
> the sensor signals as vector components of a
> vector to produce a magnitude of the vector using
> a lookup table of stored **magnitudes and**
> **associated vector components**.

These features are nowhere taught or suggested in Nikolic,

Hutchings, Jacobsen, and combination thereof. Such features

provide substantial benefits such as reducing power consumption as

well as computation time. Further, a less expensive processor may

be used with reduced computational capabilities, for example. In

addition, only limited memory resources may be required to supply

the required results, as large memories for storing large amount of

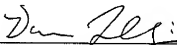computational data are not required.

Accordingly, it is respectfully submitted that independent

claims 26 and 31 are allowable, and allowance thereof is

respectfully requested. In addition, it is respectfully submitted

that claims 27-30 and 32-35 should also be allowed at least based

on their dependence from independent claims 26 and 31.

In addition, Applicants deny any statement, position or

averment of the Examiner that is not specifically addressed by the foregoing argument and response. Any rejections and/or points of argument not addressed would appear to be moot in view of the presented remarks. However, the Applicants reserve the right to submit further arguments in support of the above stated position, should that become necessary. No arguments are waived and none of the Examiner's statements are conceded.

In view of the above, it is respectfully submitted that the present application is in condition for allowance, and a Notice of Allowance is earnestly solicited.

Respectfully submitted,

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